CLAIMS



An isolated functional protein capable of interacting with the cytoplasmic domain of CD40 and/or other receptors of the TNF receptor superfamily such as CD30 and TNF receptor II wherein the protein has no homology to TRAF proteins.

2. An isolated functional protein according to claim 1 comprising an amino acid sequence with 70-100% homology to the amino acid sequence depicted in SEQ ID NO. 2.

3. An isolated functional protein according to claim 1 comprising an amino acid sequence with 70-100% homology to the amino acid sequence depicted in SEQ ID NO. 4.

4. An isolated functional protein according to claim 1 comprising an amino acid sequence with 70-100% homology to the amino acid sequence depicted in SEQ ID NO. 6.

5. An isolated functional protein according to claim 1 comprising an amino acid sequence with 70-100% homology to the amino acids 54-362 of SEQ ID NO. 2.

 An isolated functional protein according to claim 5 comprising an amino acid sequence with 70-100% homology to the amino acids 274-362 of SEQ ID NO. 2.

7. An isolated functional protein according to claim 1 comprising an amino acid sequence with 70-100% homology to the amino acids 2-245 of SEQ ID NO.6.

8. A nucleic acid sequence encoding a protein according to any of the claims 1-7.

9. A nucleic acid sequence according to claim 8 with 70-100% homology to the DNA sequence depicted in SEQ ID NO. 1.

10. A nucleic acid sequence according to claim 8 with 70-100% homology to the DNA sequence depicted in SEQ ID NO.3.

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- 12. Use of an isolated functional protein and/or a functional fragment thereof according to any of the claims 1-7 as a medicament.
- 13. Use of an isolated functional protein according to any of the claims 1-7 and/or a functional fragment thereof to treat TRAF-related, CD40-related, NF-kB related and/or Jun (kinase)-related diseases.
 - 14. The use according to claim 13 in which the disease is atherosclerosis, arthiritis, multiple sclerosis, systemic lupus erythematosus and/or graft rejection.
- 10 15. The use of an isolated functional protein according to any of the claims 1-7 and/or a functional fragment thereof to sensitize tumor cells to anti-tumor treatments.
 - 16. The use of an isolated functional protein according to any of the claims 1-7 and/or a functional fragment thereof to screen for compounds that interfere with the interaction of said protein(s) with other protein components of the TRAF, CD40 or NF-kB related pathway.
- 15 17. A method for screening compounds comprising the use of a protein according to claim 16.
 - 18. A compound isolated with the method according to claim 17.
 - 19. A pharmaceutical composition comprising one or more isolated functional proteins according to any of the claims 1-7 and/or functional fragments thereof and a pharmaceutical acceptable carrier material.
 - 20. A pharmaceutical composition comprising one or more compounds according to claim

 18 and a pharmaceutical acceptable carrier material.

21. Use of a planta according to any of the claims 1-7 and/or tional fragments thereof for the manufacture of a pharmaceutical composition to treat TRAF, CD40 and/or NF-kB related diseases.